

ASCII Character Codes

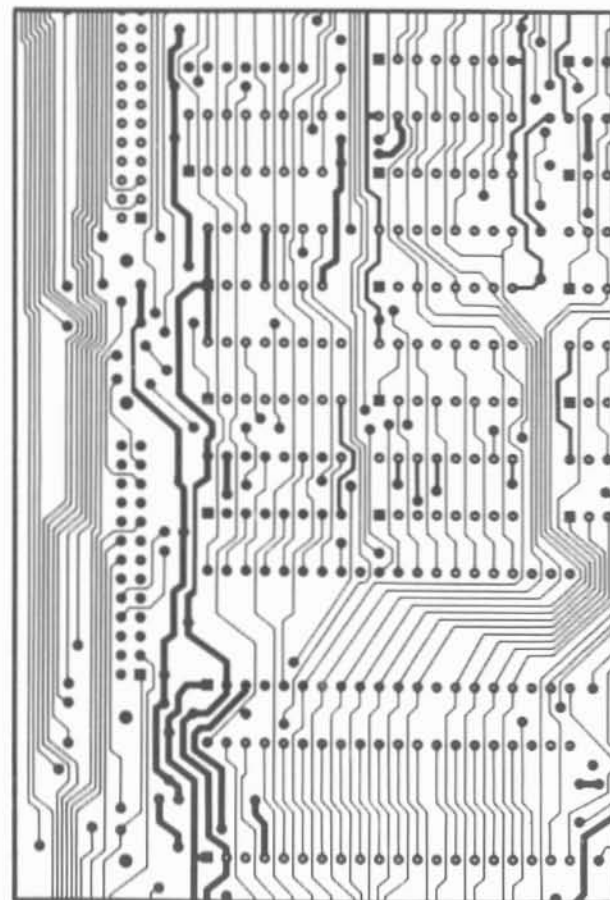
DEC	CHAR	DEC	CHAR	DEC	CHAR
000	CTRL-@	043	+	086	V
001	CTRL-A	044	.	087	W
002	CTRL-B	045	-	088	X
003	CTRL-C	046	,	089	Y
004	CTRL-D	047	/	090	Z
005	CTRL-E	048	0	091	[
006	CTRL-F	049	1	092	\
007	CTRL-G	050	2	093	]
008	BS	051	3	094	↑
009	HOR. TAB	052	4	095	—
010	LINE FEED	053	5	096	.
011	VERT. TAB	054	6	097	a
012	FF	055	7	098	b
013	CR	056	8	099	c
014	CTRL-N	057	9	100	d
015	CTRL-O	058	:	101	e
016	CTRL-P	059	;	102	f
017	CTRL-Q	060	<	103	g
018	CTRL-R	061	=	104	h
019	CTRL-S	062	>	105	i
020	CTRL-T	063	?	106	j
021	CTRL-U	064	@	107	k
022	CTRL-V	065	A	108	l
023	CTRL-W	066	B	109	m
024	CTRL-X	067	C	110	n
025	CTRL-Y	068	D	111	o
026	CTRL-Z	069	E	112	p
027	CTRL-[	070	F	113	q
028	CTRL-\	071	G	114	r
029	CTRL-]	072	H	115	s
030	CTRL-↑	073	I	116	t
031	CTRL-—	074	J	117	u
032	SPACE	075	K	118	v
033	!	076	L	119	w
034	"	077	M	120	x
035	#	078	N	121	y
036	\$	079	O	122	z
037	%	080	P	123	{
038	&	081	Q	124	
039	'	082	R	125	}
040	(	083	S	126	-
041	)	084	T	127	DEL
042	*	085	U		

CTRL = Control Character BS = Backspace
CR = Carriage Return FF = Form Feed DEL = Rubout

Cromemco 16K Basic Features

- Semi-compiling design — combines the best features of both interpreters and compilers — yields exceptionally fast execution times
- Allows 3 types of variables:
 - * integer (2 bytes) range +32767 to -32768
 - * short floating point (4 bytes) range $\pm 9.99E+62$ to $\pm 9.99E-65$
 - * long floating point (8 bytes) range $\pm 9.99E+62$ to $\pm 9.99E-65$
- 14 digit accuracy
- Advanced floppy disk I/O capabilities
- Binary and ASCII storage for both programs and data
- Sequential and random access files
- English language error messages
- Syntax error checking as program is entered
- Dynamic error trapping
- TRACE and immediate mode to facilitate debugging
- Advanced string handling capabilities
- Advanced output formatting capabilities
- Chaining of programs
- Direct machine language interaction

Cromemco 16K Extended Basic Instruction Set



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Cromemco 16K Basic Instructions

Abbreviations:

A, B, C, D variables
m, n, p, r integers
E, F, G, H expressions or variables
(H may be relational)
L1, L2 line numbers
stmtnt statement
strng string expression
[] optional parameter
{ } choose one parameter
... may be repeated
fn file number
p1, p2 parameters
s one letter
* do not use with line no.
** use only with line no.
† disk basic only
byte byte value
fmt format
dr: drive:

ABSolute value (E)
ASCii (A\$)
ATN(E) arctangent
* AUTOLine L1, L2

BINAND (A, B)
BINOR (A, B)
BINXOR (A, B)
† BYE

CHR\$ (A) ASCII character
CLOSE [Vn]
* CONTINUE
COSine (E)
† CREATE strng

** DATA [A] [strng] [,B...]
DEGREE
DELETE L1, L2
DEF FN\$ (A) = E
DIM A (m) [, B(n, p, r) ...]
† * DIRectory [dr:] [strng]
† DISK [dr:]

ECHO
** END
ENTER strng
† ERASE strng
ESCAPE
EXPonent (E)

{ FOR A = E TO F [STEP G]
NEXT A
FRActional part (E)
FREe space (E)
GET \fn [,p1 [,p2]] \ [E, F ...]
GOTO L1
{ GOSUB L1
RETURN
IF H THEN (L1) {stmtnt
IMODE
INPUT [(\fn, p1, p2\)] [strng]] A[,B...]
INTEGER A [(m)] [,B...]
INTEger (E)
INP (m)
IOSTAT (fn, m)
IRN (E) integer random number generator

LENGth (A\$)
[LET] A = E
LFMODE
LIST [strng,] [L1[,L2]]
LONG A [(m)] [,B...]
LOGarithm (E)
† LOAD strng

MAXimum (E)
† MAT A = E
MINimum (E)

NOECHO
NOESCAPE
NoTRACE

ON E (GOTO) {GOSUB} L1
ON ERROR (STOP) {GOTO} {GOSUB} L1
ON ESCAPE (STOP) {GOTO} {GOSUB} L1
OPEN \fn [,p1 [,p2]] \ strng
OUT m, byte

PEEK (m)
POSition (A\$, Y\$, n)
POKE m, byte
{PRINT} @ [(\fn, p1, p2\)] [USING fmt] [E [{ } { } F ...]]
PUT \fn [,p1 [,p2]] \ [E, F ...]

RADIans
RANDOMIZE
READ A [,B...]
REM [anything you want]
RESTORE

* RENUMBER
† RENAME strng-old, strng-new

RND (E) random number generator values
RUN [strng]

† SAVE strng
SCRatch
SET m,A
SFMODE
SGN (E) algebraic sign
SHORT A [(m)] [,B...]
SINE (E)
SPaCe (E) use with PRINT
SQR (E) square root
** STOP
STR\$ (n) string
SYSTEM (E)

TANGent (E)
TAB (E) use with PRINT
TRACE

USER (A, p1 [,p2...])

VALUE (A\$)

Hexadecimal — Decimal Conversion Table

HEXADECIMAL COLUMNS											
4			3			2			1		
HEX = DEC			HEX = DEC			HEX = DEC			HEX = DEC		
0	0		0	0		0	0		0	0	
1	4,096		1	256		1	16		1	1	
2	8,192		2	512		2	32		2	2	
3	12,288		3	768		3	48		3	3	
4	16,384		4	1,024		4	64		4	4	
5	20,480		5	1,280		5	80		5	5	
6	24,576		6	1,536		6	96		6	6	
7	28,672		7	1,792		7	112		7	7	
8	32,768		8	2,048		8	128		8	8	
9	36,864		9	2,304		9	144		9	9	
A	40,960		A	2,560		A	160		A	10	
B	45,056		B	2,816		B	176		B	11	
C	49,152		C	3,072		C	192		C	12	
D	53,248		D	3,328		D	208		D	13	
E	57,344		E	3,584		E	224		E	14	
F	61,440		F	3,840		F	240		F	15	
7	6	5	4	3	2	1	0	7	6	5	4
BYTE						BYTE					